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NOTICE OF ALLOWANCE AND FEE(S) DUE

7500

04/20/2004

JOSEPH A WALKOWSKI TRASK BRITT & ROSSA PO BOX 2550 SALT LAKE CITY, UT 84110

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ART UNIT	PAPER NUMBER
2814	

DATE MAILED: 04/20/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/259,145	02/26/1999	PAI-HUNG PAN	3027.1US	4919

TITLE OF INVENTION: WELL-DRIVE ANNEAL TECHNIQUE USING PREPLACEMENT OF NITRIDE FILMS FOR ENHANCED FIELD ISOLATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/20/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

04/20/2004

JOSEPH A WALKOWSKI TRASK BRITT & ROSSA PO BOX 2550 SALT LAKE CITY, UT 84110 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

	ansimited to the OSF 10, on the date indicated below.
(Depositor's name)	
(Signature)	
(Date)	

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nonprovisional	NO	\$1330		\$300	\$1630	07/20/2004
EXA	MINER	ART UN	IT	CLASS-SUBCLASS	7	
MAI,	ANH D	2814		257-371000		
CFR 1.363). Change of correspond	ce address or indication of "F	,	names of agents Of	nting on the patent front page up to 3 registered patent R, alternatively, (2) the name	attorneys or [
Address form PTO/SB/122) attached. I "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		agent) and	ing as a member a registered d the names of up to 2 regis or agents. If no name is listented.	stered patent		

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee catego	ry or categories (will not be printed on the patent);	☐ individual	□ corporation or other private group entity	y 🗖 governmen
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the amo	ount of the fee(s)	is enclosed.	
☐ Publication Fee	☐ Payment by credit	card. Form PTO-	2038 is attached.	
☐ Advance Order - # of Copies	☐ The Director is he Deposit Account Nur	ereby authorized	by charge the required fee(s), or credit an (enclose an extra copy of thi	y overpayment, to
Director for Patents is requested to apply the	Issue Fee and Publication Fee (if any) or to re-apply	any previously p	paid issue fee to the application identified ab	ove.
(Authorized Signature)	(Date)			
other than the applicant; a registered atteinterest as shown by the records of the Uni				
estimated to take 12 minutes to complete, completed application form to the USPT case. Any comments on the amount of suggestions for reducing this burden, shot Patent and Trademark Office, U.S. D	by 37 CFR 1.311. The information is required to hich is to file (and by the USPTO to process) an 35 U.S.C. 122 and 37 CFR 1.14. This collection is including gathering, preparing, and submitting the D. Time will vary depending upon the individual time you require to complete this form and/or lidd be sent to the Chief Information Officer, U.S. epartment of Commerce, Alexandria, Virginia COMPLETED FORMS TO THIS ADDRESS.			

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09/259,145	02/26/1999	PAI-HUNG PAN	PAI-HUNG PAN 3027.1US 491	4919
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TRASK BRITT & I	RUSSA		ART UNIT	PAPER NUMBER
SALT LAKE CITY	, UT 84110		2814	
			DATE MAILED: 04/20/2004	1

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 485 day(s). Any patent to issue from the above-identified application will include an indication of the 485 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

*	Application No.	Applicant(s)	
	09/259,145	PAN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Anh D. Mai	2814	pu
The MAILING DATE of this communication appearable All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED ir or other appropriate communication is selected and MPEP 1308.	n this application. If not include unication will be mailed in due o subject to withdrawal from issue	ed course, THIS
1. This communication is responsive to the Decision by Boar	d of Patent Appeal and Inter	<u>terences</u> .	
2. The allowed claim(s) is/are <u>25,26,31-34,37-40 and 43-49</u> .			
3. A The drawings filed on 26 February 1999 are accepted by the	he Examiner.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the company of the paper No./Mail Date 7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	e been received. e been received in Application cuments have been received of this communication to file MENT of this application. Initted. Note the attached EXA es reason(s) why the oath of the submitted. Son's Patent Drawing Review of the Amendment / Comment of the header according to 37 CF isit of BIOLOGICAL MATION.	on No In this national stage applicated in this national stage applicated are properties. AMINER'S AMENDMENT or Nor declaration is deficient. In the Office action of the drawings in the front (not the ER 1.121(d).	quirements OTICE OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview S Paper No./ 08), 7. Examiner's	Iformal Patent Application (PTC) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allo	wance

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Application/Control Number: 09/259,145

Art Unit: 2814

DETAILED ACTION

EXAMINER'S AMENDMENT

1. The application has been amended as follows:

In the Specification:

New Title: AN INTERMEDIATE STRUCTURE HAVING SILICON NITRIDE BARRIER LAYER EMCAPSULATED THE SEMICONDUCTOR SUBSTRATE.

Allowable Subject Matter

- 2. Claims 25, 26, 31-34, 37-40 and 43-49 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: the claims are allowed for the reason provided by the Board of Patent Appeal and Interferences.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh D. Mai whose telephone number is (571) 272-1710. The examiner can normally be reached on 9:00AM-5:00PM.

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Page 3

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A.M April 19, 2004